

Rotatable Tool Assembly

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This is a continuation in part of my previously filed co-pending application ^{now US 6863352} serial no. 10/345,562 filed January 16, 2003, which in turn claimed priority from my previously filed provisional application filed January 24, 2002 and assigned serial no. 60/352,112. The present invention relates to a mounting for rotatable tools used to cut hard surfaces and, in particular, to an improved mounting having a washer to protect portions of the mounting block that retains the tool and having an annular elastomeric member for centering the washer.

Background of the Invention

A machine for cutting hard surfaces has a rotatable member such as a wheel or a drum which turns about an axis and has a plurality of cutting tools mounted on the rotatable member. To advance the cut, the rotating member is applied against the hard surface such that each tool removes a small portion of hardened material.

To maximize their useful life, the cutting tools are rotatably mounted about a longitudinal axis and have a cylindrically mounted portion rotatably fitted in a cylindrical aperture on a mounting block on the rotating member. To transfer force from the mounting block to the tool, the tool is provided with an annular flange having a planar rear surface which rests upon the planar forward surface of the mounting block surrounding the aperture such that the forward surface of the mounting block applies force to the rear surface of the flange.